

Purchase Order Receipt Listing

Monday, March 13, 2017 10:05:49 AM

Page 1 of 2

All amounts are calculated in domestic currency.

All Vendors PO ID PO35539 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO35539	1	DAS	M303R0.750	f	3/15/2017	3/13/2017	12.0000	\$4.72	0.0000	0	\$56.59
CAD	No	14	303 Round Bar 0.750	f	12.0000	PLOU01		\$56.59	0.0000	0	
		9-89	m137043								
	2	DAS	M303R1.000	f	3/15/2017	3/13/2017	12.0000	\$7.16	0.0000	0	\$85.91
	No	14	303 Round Bar 1.00	f	12.0000	PLOU01		\$85.91	0.0000	0	
		9-89	m137043								
	3	DAS	M6061T6B0.750X00. f		3/15/2017	3/13/2017	12.0000	\$3.46	0.0000	0	\$41.57
	No	14	6061-T6 Bar .750 x .750	f	12.0000	PLOU01		\$41.57	0.0000	0	
		9-89	m137043								
	4	DAS	M6061T6B0.750X01. f		3/15/2017	3/13/2017	12.0000	\$4.08	0.0000	0	\$48.95
	No	14	500								
		9-89	6061-T6 Bar .750 X 1.50	f	12.0000	PLOU01		\$48.95	0.0000	0	
			m137043								
	5	DAS	M6061T6B1.500X02. f		3/15/2017	3/13/2017	12.0000	\$8.28	0.0000	0	\$99.34
	No	14	000								
		9-89	6061-T6 Bar 1.50 x 2.00	f	12.0000	PLOU01		\$99.34	0.0000	0	
			m137043								
	6	DAS	M6061T6B2.000X03. f		3/15/2017	3/13/2017	12.0000	\$16.90	0.0000	0	\$202.78
	No	14	500								
		9-89	6061-T6 Bar 2.00 x 3.50	f	12.0000	PLOU01		\$202.78	0.0000	0	
			m137043								
	7	DAS	M6061T6B2.500X01. f		3/15/2017	3/13/2017	12.0000	\$10.45	0.0000	0	\$125.36
	No	14	500								
		9-89	6061-T6 Bar 2.50 x 1.50	f	12.0000	PLOU01		\$125.36	0.0000	0	
			m137043								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Rev Date/ Rev Emp	Rev Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO35539	8		M6061T6R3.250	f	3/15/2017	3/13/2017	12.0000	\$19.58	0.0000	0	\$234.91
CAD	No		6061-T6 RD BAR 3.250"	f	12.0000	PLOU01		\$234.91	0.0000	0	
			m137043								
	12		71401-45		3/15/2017	3/13/2017	1.0000	\$0.00	0.0000	0	\$0.00
	No		PROCUREMENT QUALITY CLAUSES		1.0000	PLOU01		\$0.00	0.0000	0	
			m137043								
Total Received Quantity:											
Total Qty to Inspect (PO U/M):											
Total Reject Quantity:											
Total Receipt Value:											
Total Balance Due Quantity:											
97.0000											
0.0000											
0.0000											
\$895.40											
0.0000											

Ship From: B I L L O F L A D I N G
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 10Mar17 No: PEC 3490
Probill at 11:05 From P
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0-0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

Order	Material	Heat Number	Tag No	Quantity	PCS	MTR	Wt LBS
1) Our Order PEC- 26145- 1 Your PO # 35539	STAINLESS STEEL ROUND BAR 303 STAINLESS	X6P1	627252	12 FT	1	MTR	19
2) Our Order PEC- 26145- 2 Your PO # 35539	STAINLESS STEEL ROUND BAR 303 STAINLESS	X5B3	627253	12 FT	1	MTR	32
3) Our Order PEC- 26145- 3 Your PO # 35539	ALUMINUM SQUARE BAR 6061-T6511	200529-3	627254	12 FT	1	MTR	8
4) Our Order PEC- 26145- 4 Your PO # 35539	ALUMINUM FLAT BAR 6061-T6511	201700713	627255	12 FT	1	MTR	16
5) Our Order PEC- 26145- 5 Your PO # 35539	ALUMINUM FLAT BAR 6061-T6511	201701332	627256	12 FT	1	MTR	43

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.
ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
NOUVEAU DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

807-03-13

B I L L O F L A D I N G
Ship From: THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 34909
Ship Date 10Mar17 at 11:05 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC- 26145- 6 Your PO # 35539

ALUMINUM FLAT BAR 6061-T6511

2.00" x 3.50" X 144.0000"

Heat Number

201621708

Tag No

627257

Quantity

12 FT

PCS

1

Wt LBS

100

7) Our Order PEC- 26145- 7 Your PO # 35539

ALUMINUM FLAT BAR 6061-T6511

1.50" x 2.50" X 144.0000"

Heat Number

201701852

Tag No

627258

Quantity

12 FT

PCS

1

Wt LBS

54

8) Our Order PEC- 26145- 8 Your PO # 35539

ALUMINUM ROUND BAR 6061-T6511

3.250" DIA X 144.0000"

Heat Number

Z0080195

Tag No

627259

Quantity

12 FT

PCS

1

Wt LBS

119

TOTAL:

Tags

8

PCS

8

LBS

391

Heat Number

200529-3

201621708

201700713

201701332

201701852

X5B3

X6P1

Z0080195

*** Chemical Analysis ***

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR

Page: 2Continued

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.

MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

B I L L O F L A D I N G

No: PEC 34909

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 10Mar17 at 11:05 From PFW
Probill
Via VIM DELIVERY
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 1 BDL GW. 430 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

***UNE SURCHARGE D'ENERGIE DE \$25.00

SERA AJOUTEE A CHAQUE COMMANDE.***

***POUR VOS BESOINS D'ACIER INOXYDABLE,

CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

6217-03B

Page: 3 Last

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.

MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

THYSSENKRUPP MATERIALS NA

PART AEROSPACE
STAINLESS STEEL ROUND BAR 303 STAINLESS
750" DIA X 144,0000"
PART NO.

PO/Ref: 35539
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by: 

Certificate of Mill Test Results
BL PEC-034909-001
10Mar17
Pg 1/1



740 Imperial Road North

Certificate: 139555 2 Mail To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

METALLURGICAL TEST REPORT

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 2/04/2016 Page: 1
Steel: 303
Finish: CD

Your Order: PEC272116

NAS Order: PN 0061233 02

Corrosion:

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
ASTM A583/12 EN 10204 3.1, ASTM A484/11
AMS 5640- TYPE 1, Q08-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 253.225-7009 EU DIRECTIVE
2011/65/EU, ROHS. EAF+AD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

DAS
14
9-89
17103114

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Places	Commodity Code
BH7177 7		.7500		1.064	144.00	13	1	

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
X691	US	.0452	.1550	17.1025	.3780	1.8195	.3240	.0447	8.2970	.0295
	S %	SI %								
	.3495	.6380								

MECHANICAL PROPERTIES

Product Id	1 d 0 1 c i	HB No.	.2YS KSI	UTS KSI	RA %	Elng % 4D
BH7177 7	R L	220.0	94.22	104.46	36.44	27.01

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.



THYSSENKRUPP MATERIALS NA

DART AEROSPACE
STAINLESS STEEL ROUND BAR 303 STAINLESS
1.00" DIA X 144.0000"
PART NO.

PO/Ref: 35539
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-034909-002
10Mar17
Pg 1/1



740 Imperial Road North

Certificate: 130738 9

Customer: 007206 001

Your Order: PEC271604

NAS Order: PN 0060474 04

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
ASTM A582/12 EN 10204 3.1, ASTM A484/11
AMS 5640V TYPE 1, QOS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 252.225-7009 EU DIRECTIVE
2011/65/EU, ROHS, EAF+AD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

METALLURGICAL TEST REPORT

North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

Date: 1/12/2016 Page: 1

Steel: 303
Finish: CB

Corrosion:

Red Ratio: 69.4 : 1

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BH6660 5		1.0000		1.325	144.00	13	1	

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323

Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
3583	US	.0376	.1990	17.0865	.3320	1.8785	.2825	.0570	8.3895	.0295

S %	SI %
.3500	.5380

MECHANICAL PROPERTIES

Product Id	1 4 o l c r	HB NO.	.2YR KSI	UTS KSI	RA %	ELng % 4D
BH6660 5	R L	196.0	75.88	85.14	42.19	24.27

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS LARK

1/12/2016

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM SQUARE BAR 6061-T6511
750" X 144,0000"
PART NO.

PO/Rel 35539

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-034909-003

10Mar17
Pg 1/1

Certificate of Mill Test Results



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST

BILL TO THYSSENKRUPP MATERIALS NA	CERT CODE: 9	DIE NUMBER S 2566	DATE OF SHIPMENT Jan/03/2017	EXTRUDEX ORDER NO. 200529 - 3	MANIFEST NO. 362865
SHIP TO THYSSENKRUPP MATERIALS NA	CUSTOMER PO PEC-279420	SALESMAN FORBES DODWELL			
SO DESCRIPTION .750" SQ	CUSTOMER PART NUMBER 2566-S	PART DESCRIPTION .750" SQ			
CERTIFICATION ASTM B221-14 - AMS QQA 200/8			MADE IN CANADA		

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness Rockwell F	Conductivity
A.11	6061	Dec/20/2016	42.80	38.90	16.60	87.9, 88.4, 89.0	

Chemical Composition

Cast Number	Lot	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
3B4604	A.11	6061	0.51	0.15	0.21	0.03	0.88	0.07	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

DAS
14
9-89 17/03/14

David Natale
Quality Control Manager

1 - CUSTOMER COPY

THYSSENKRUPP MATERIALS NA

PART AEROSPACE
ALUMINUM EL AT BAR 6061-T6511
750" X 1.50" X 144.0000"
PART NO.

PO/REL 35539

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-034909-004

10Mar17
Pg 1/1

Certificate of Mill Test Results



Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
283514	2

BILL TO ThysenKrupp Materials NA-Concord, ON	MANIFEST NUMBER 320425	DIE NUMBER RB0113	DATE OF SHIPMENT 1/23/2017
SHIP TO ThysenKrupp Materials NA-Concord, ON	CUSTOMER PO PEC-280411	ALLOY+TEMPER 6061-T6511	SALES PERSON D. Schroeder (Canada)
Quantity Certified 2,096 lbs 132 pcs	CUSTOMER PART NUMBER RB0113	DESCRIPTION SCRB .750x1.500	CERTIFICATION ASTM-B221-14 StencilCont
			SPECIFICATION AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	6 201700713	1/19/17	min 49.60 max 54.00	min 46.90 max 51.00	min 12.70 max 18.00

DAS
14
9-89
17103114

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Total	Melt Source:
01081704	201700713	6061	0.71	0.34	0.32	0.09	0.87	0.09	0.07	0.02	97.49	0.05	0.15	United States of America
11171604	201700713	6061	0.73	0.36	0.31	0.10	0.84	0.09	0.07	0.02	97.48	0.05	0.15	United States of America
11171605	201700713	6061	0.75	0.35	0.31	0.10	0.85	0.08	0.08	0.02	97.46	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Print Date: 1/23/2017

THYSSENKRUPP MATERIALS NA

ALUMINUM FLAT BAR 6061-T6511
1.50" x 2.00" x 144.0000"
PART NO.

PO/Rd 35539

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-034909-005

10Mar17
Pg 1/1

Certificate of Mill Test Results

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875



OUR ORDER NUMBER	ITEM
285786	14

BILL TO

ThyssenKrupp Materials NA-Concord, ON

MANIFEST NUMBER

324508

SHIP TO

ThyssenKrupp Materials NA-Concord, ON

CUSTOMER PO

PEC-281031

Quantity Certified 2,052 lbs 48 pcs

CUSTOMER PART NUMBER
MRB0471

DIE NUMBER

MRB0471

DATE OF SHIPMENT

2/28/2017

ALLOY / TEMPER

6061-T6511

SALESPERSON

D. Schroeder (Canada)

DESCRIPTION

MORB 1.500x2.000

CERTIFICATION

ASTM-B221-14 StencilCont

SPECIFICATION

AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests Lot No.

4 201701332

Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1/30/17	min 47.50 max 49.50	min 43.70 max 46.10	min 14.00 max 15.50

DAS
14
9-89

17/03/14

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Each	Total	Melt Source:
01251706	201701332	6061	0.71	0.34	0.30	0.10	0.90	0.08	0.06	0.02	97.49		0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Print Date: 2/28/2017

THYSSENKRUPP MATERIALS NA

PART AEROSPACE
ALUMINUM PLAT BAR 6061-T6511
2.00" x 3.50" X 144.0000"
PART NO.

P.O. Ref 35539

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-034909-006

10Mar17
Pg 1/1

Certificate of Mill Test Results



Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO ThysenKrupp Materials NA-Concord, ON	MANIFEST NUMBER 317303	DIE NUMBER MRB0481	DATE OF SHIPMENT 12/16/2016	CERTIFICATION ASTM-B221-14 StencilCont
SHIP TO ThysenKrupp Materials NA-Concord, ON	CUSTOMER PO PEC-279853	ALLOY/TEMPER 6061-T6511	SALES PERSON D. Schroeder (Canada)	SPECIFICATION AMS-QQA-200/8 Rev-A
Quantity Certified 2,392 lbs 24 pcs	CUSTOMER PART NUMBER MRB0481	DESCRIPTION MORB 2.000x3.500		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
	3 201621708	12/14/16	min 51.90 max 53.00	min 48.80 max 50.10	min 14.50 max 14.90

DAS
14
9.89
17/03/14

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others Total	Melt Source:
11061603	201621708	6061	0.72	0.40	0.32	0.12	0.89	0.12	0.08	0.02	97.33	0.05	0.15	United States of America
11271602	201621708	6061	0.72	0.35	0.30	0.10	0.89	0.09	0.06	0.02	97.47	0.05	0.15	United States of America
11271603	201621708	6061	0.74	0.35	0.31	0.10	0.86	0.09	0.06	0.02	97.47	0.05	0.15	United States of America
11271604	201621708	6061	0.73	0.34	0.31	0.09	0.84	0.11	0.05	0.03	97.50	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Print Date: 12/16/2016

THYSSENKRUPP MATERIALS NA

PART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
1.50" x 2.50" x 144.0000"
PART NO.

PO/Ref 35539
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

BL PEC-034909-007

10Mar17
Pg 1/1

Certificate of Mill Test Results



Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
286924	3

BILL TO
ThyssenKrupp Materials NA-Concord, ON
SHIP TO
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 2,670 lbs 50 pcs
MANIFEST NUMBER 324043
CUSTOMER PO PEC-281323
CUSTOMER PART NUMBER MRB0657
DIE NUMBER MRB0657
DATE OF SHIPMENT 2/23/2017
SALES PERSON D. Schroeder (Canada)
ALLOY/TEMPER 6061-T6511
DESCRIPTION MORB1.500X2.500
CERTIFICATION
ASTM-B221-14 Stencil Cont
SPECIFICATION
AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is ROHS-2, REACH, and DEARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
8	201701852	2/10/17	min 50.30 max 53.20	min 46.50 max 49.60	min 15.80 max 18.40

DAS
14
17403/14
9-89

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
												Each	Total	
001K170201Y	201701852	6061	0.74	0.38	0.32	0.10	0.90	0.10	0.09	0.03	97.36	0.05	0.15	United States of America
001K170202Y	201701852	6061	0.75	0.43	0.33	0.10	0.88	0.10	0.09	0.03	97.31	0.05	0.15	United States of America
001M170130Y	201701852	6061	0.76	0.37	0.34	0.12	0.95	0.11	0.05	0.03	97.27	0.05	0.15	United States of America
001M170131Y	201701852	6061	0.77	0.36	0.34	0.11	0.90	0.11	0.07	0.03	97.32	0.05	0.15	United States of America
01261701	201701852	6061	0.74	0.35	0.31	0.11	0.90	0.08	0.06	0.02	97.43	0.05	0.15	United States of America

SKM products are melted and extruded in the USA

Print Date: 2/23/2017

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
3.250" DIA X 144.0000"
PART NO.

PO/Rel 35539

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-034909-008

10Mar17

Signed by: 

Pg 1/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-281206-1		CUSTOMER PART NUMBER: R84/STK		PRODUCT DESCRIPTION: KAISERSELECT PRECISION ROD 3.250 +/- .012	
KAISER ORDER NUMBER: 6025303	LINE ITEM: 001	SHIP DATE: 02/14/2017	KAISER LOT NUMBER: Z00080195	ALLOY: 6061	TEMPER: T6511B
WEIGHT SHIPPED: 1054.000 LB	QUANTITY: 9.000 PCS	B/L NUMBER: 618210	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00080195	0001	C001	57.3	53.8	14.6	RE 94	N/A	N/A
Z00080195	0001	C002	51.6	48.1	17.6	RE 94	N/A	N/A
Z00080195	0001	C003	56.9	53.6	15.9	RE 92	N/A	N/A
Z00080195	0001	C004	56.9	53.9	15.7	RE 94	N/A	N/A
Z00080195	0002	C001	58.3	54.6	15.9	RE 92	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
IC6918	.76	.27	.31	.10	.91	.09	.05	.02	.00	.00	.00	.01	.04

Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96061
MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL
PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY
OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

DAS
14
9-89

17/03/14

Plant Serial: 00271993

Kaiser Order Number: 6025303

Line Item: 001

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511

3.250" DIA X 144.0000"

PART NO.

PO/Rel 35539

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-034909-008

10Mar17

Signed by: 

Pg 2/2

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00271993

Kaiser Order Number: 6025303

Line Item: C01

Page 2 of 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 1303 RD.750
 DATE 17/03/14

PO / BATCH NO 35531/137043

MATERIAL CERT REC'D. yes
 QUANTITY RECEIVED 12'
 QUANTITY INSPECTED 12'
 QUANTITY REJECTED _____

THICKNESS ORDERED .750
 THICKNESS RECEIVED .750
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y N	303
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y N	.750
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y N	A582
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y N	HEAT# XL6P1
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y N	1303RD.750
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y N	1137043
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>14</u> DATE: <u>17/03/14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303 R1.000
DATE 17/03/14

PO / BATCH NO 35539/137043

MATERIAL CERT REC'D yes
QUANTITY RECEIVED 12'
QUANTITY INSPECTED 12'
QUANTITY REJECTED _____

THICKNESS ORDERED 1.00
THICKNESS RECEIVED 1.00
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	303
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	1.000
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	AS14582
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	HEAT # X5B3
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	M303 R1.00
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	M137043
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 14</u> DATE: <u>17/03/14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M606ITL B.750X.750
DATE 17/03/14

PO / BATCH NO 35539/137043

MATERIAL CERT REC'D yes
QUANTITY RECEIVED 12'
QUANTITY INSPECTED 12'
QUANTITY REJECTED _____

THICKNESS ORDERED .750
THICKNESS RECEIVED .750
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/>	<u>M606ITL</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/>	<u>.750</u>
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/>	<u>ASTM B221</u>
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/>	<u>HEAT# 200529-3</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/>	<u>M606ITL B.750X.750</u>
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/>	<u>M137043</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____		
DATE: <u>17/03/14</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL MODULITE B-750X1.50
 DATE 17/03/14

PO / BATCH NO 35539/137043

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 12'
 QUANTITY INSPECTED 12'
 QUANTITY REJECTED _____

THICKNESS ORDERED .750
 THICKNESS RECEIVED .750
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>MODULITE</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>.750</u>
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>ASTM B221</u>
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>HEAT# 201700713</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>MODULITE B-750X1.50</u>
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>137043</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 14</u> DATE: <u>17/03/14</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL ML6061TL6 BL50X2.00
 DATE 17/03/14

PO / BATCH NO 35539/137043

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 12'
 QUANTITY INSPECTED 12'
 QUANTITY REJECTED _____

THICKNESS ORDERED 1.50
 THICKNESS RECEIVED 1.50
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	<u>ML6061TL6</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	<u>1.50</u>
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	<u>ASTM B221</u>
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>HEAT# 201701332</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	<u>ML6061TL6 BL50X2.00</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	<u>M137043</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 14</u> DATE: <u>17/03/14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL ML06ITL B2.00X3.50 PO / BATCH NO 35539/137043
 DATE 17/03/14

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 12'
 QUANTITY INSPECTED 12'
 QUANTITY REJECTED _____

THICKNESS ORDERED 2.00
 THICKNESS RECEIVED 2.00
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	N	<u>ML06ITL</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	N	<u>2.00</u>
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	N	<u>ASTM B221</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	N	<u>HEAT #201621708</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	N	<u>ML06ITL B2.00X3.50</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	N	<u>M137043</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 14</u> DATE: <u>17/03/14</u>	SIGNED OFF BY: _____ DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: ML06IT6 B2.50X1.50

PO / BATCH NO: 35539/137043

DATE: 17/03/14

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: 1.50
 THICKNESS RECEIVED: 1.50
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	N	<u>ML06IT6</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	<u>1.500</u>
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	N	<u>ASTM B221</u>
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	<u>HEAT# 201701852</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	<u>ML06IT6 B2.50X1.50</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	<u>M137043</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>	<u>14</u>	SIGNED OFF BY: _____	
DATE: <u>17/03/14</u>	<u>9:00</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M606 T6 R3.250
 DATE: 17/03/14

PO / BATCH NO: 35539/137043

MATERIAL CERT REC'D: Y
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED:

THICKNESS ORDERED: 3.25
 THICKNESS RECEIVED: 3.25
 SHEET SIZE ORDERED:
 SHEET SIZE RECEIVED:

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>M606 T6</u>
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>3.250</u>
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>ASTM B221</u>
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>HEAT# 70080195</u>
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>M606 T6 R3.250</u>
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<u>M137043</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: <u> </u>		
DATE: <u>17/03/14</u>	DATE: <u> </u>		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35539

Purchase Order Date 3/9/2017

PO Print Date 3/9/2017

Page Number 1 of 6

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED

MAR 09 2017

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	VENDOR'S TRUCK	Currency	CAD
Ship Acct:		FOB	FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
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1	M303R0.750	303 Round Bar 0.750	3/15/2017		12.00	\$5.35	\$64.17
			Yes		f	6.2625	75.15

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$64.17

2	M303R1.000	303 Round Bar 1.00	3/15/2017		12.00	\$9.51	\$114.09
			Yes		f		

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

Line Total: \$114.09

PO Instructions: QUOTE NO: ST-25935

Note:

3/9/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35539

Purchase Order Date 3/9/2017

PO Print Date 3/9/2017

Page Number 2 of 6

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

3 M6061T6B0.750X00.750 6061-T6 Bar .750 x .750 3/15/2017
Yes
3/15/2017

12.00 ✓
f \$4.60 \$55.20

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$55.20

4 M6061T6B0.750X01.500 6061-T6 Bar .750 X 1.50 3/15/2017
Yes
3/15/2017

12.00 ✓
f \$5.42 \$65.00

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$65.00

5 M6061T6B1.500X02.000 6061-T6 Bar 1.50 x 2.00 3/15/2017
Yes
3/15/2017

12.00 ✓
f \$10.99 \$131.93

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

PO Instructions: QUOTE NO: ST-25935

Note:

3/9/2017

6017-03-13.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35539**

Purchase Order Date 3/9/2017

PO Print Date 3/9/2017

Page Number 3 of 6

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444
Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

6 M6061T6B2.000X03.500 6061-T6 Bar 2.00 x 3.50 3/15/2017
Yes
3/15/2017

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$131.93
12.00 f \$22.44 \$269.30

7 M6061T6B2.500X01.500 6061-T6 Bar 2.50 x 1.50 3/15/2017
Yes
3/15/2017

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$269.30
12.00 f \$13.87 \$166.48

2017-03-13
Line Total: \$166.48

PO Instructions: QUOTE NO: ST-25935

Note:

3/9/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35539**

Purchase Order Date 3/9/2017

PO Print Date 3/9/2017

Page Number 4 of 6

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone

Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

8 M6061T6R3.250 6061-T6 RD BAR 3.250" 3/15/2017
Yes
3/15/2017

12.00 \$26.00 \$311.96
f

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

8217 03-B

Line Total: \$311.96

9 M7075T6B5.000X0.375 7075-T6 BAR 5.000" X 3/20/2017
0.375" Yes
3/20/2017

12.00 \$24.58 \$295.00
f

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

Line Total: \$295.00

PO Instructions: QUOTE NO: ST-25935

Note:

3/9/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35539**

Purchase Order Date 3/9/2017

PO Print Date 3/9/2017

Page Number 5 of 6

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

Chantal Lavoie

10	M7075T6B6.000X0.250	7075-T6 BAR 6.000" X 0.250"	3/20/2017	12.00	\$21.33	\$256.00
		Yes		f		
		3/20/2017				

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

NOTE: CUT 6 PCS AT 13.375", GRAIN DIRECTION ALONG 13.375"

Line Total: \$256.00

11	M7075T6B7.000X2.000	7075-T6 BAR 7.000" X 2.000" (order in billets - 13.375")	3/15/2017	13.37	\$89.27	\$1,194.00
		Yes		f		
		3/15/2017				

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR
AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR
PER AMS-QQ-A-200/11 OR QQ-A-250/12 CUT FROM PLATE

NOTE: CUT 12 PCS AT 13.375", GRAIN DIRECTION ALONG 13.375"

Line Total: \$1,194.00

PO Instructions: QUOTE NO: ST-25935

Note:

3/9/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35539**

Purchase Order Date 3/9/2017

PO Print Date 3/9/2017

Page Number 6 of 6

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

12	71401-45	PROCUREMENT QUALITY CLAUSES	3/15/2017	1.00	\$0.00	\$0.00
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No

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

3/15/2017

SP17-03-B1

Line Total: \$0.00

PO Total: \$2,923.14

PO Instructions: QUOTE NO: ST-25935

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 3/9/2017